

Work Order ID 68385

Tuesday, April 12, 2011 1:25:41 PM

Page 1

Item ID: D4000-045

Accept

Setup Start

Revision ID:

Stop

Item Name: Fuel Pickup Fitting Assembly

Start Date: 4/12/2011 Start Qty: 2.00

Cust Item ID:

Required Date: 4/15/2011 Req'd Qty: 2.00

Customer:

Reference:

Approvals:

Process Plan:

Date: 11-04-12

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

D4000

A

100

Weld per dwg A/R Aluminum rod Batch: 1114703 0.00



Large Fab

Memo

0.00

Large Fab

11.05.02 2 0

110

QC9- Inspect visual per QS1004- Fusion Welds 0.00



QC

Memo

0.00

Quality Control

2 0 BE11/05/02

120

QC5- Inspect part completeness to step on W/O 0.00



QC

Memo

0.00

Quality Control

8 u105103

(72)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			



NOTE: Date & initial all entries




Work Order ID 68385

Page 2

Tuesday, April 12, 2011 1:25:41 PM

Item ID: D4000-045 Accept  Setup Start 
Revision ID:
Item Name: Fuel Pickup Fitting Assembly Stop 
Start Date: 4/12/2011 Start Qty: 2.00  Cust Item ID:
Required Date: 4/15/2011 Req'd Qty: 2.00  Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start 
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop 

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
124  HandFinish Hand Finishing	Chemical Conversion Coat per QSI005 4.1 Memo	0.00 0.00		<i>R11.05.04</i>		<i>2</i>	<i>0</i>		
126  QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.00		<i>Sb 11/05/04</i>		<i>2</i>	<i>0</i>		
130  Packaging Packaging	Identify as per dwg & Stock Location: <i>WA</i> Memo	0.00 0.00		<i>R11.05.04</i>		<i>2</i>	<i>0</i>		

W/O:		WORK ORDER CHANGES					
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NOTE: Date & initial all entries

Work Order ID 68385

Tuesday, April 12, 2011 1:25:41 PM



Page 3

Item ID: D4000-045

Accept



Setup Start



Revision ID:

Stop



Item Name: Fuel Pickup Fitting Assembly

Start Date: 4/12/2011 Start Qty: 2.00



Cust Item ID:

Required Date: 4/15/2011 Req'd Qty: 2.00



Customer:

Reference:

Run Start



Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

11/5/47

11-05-4
2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Tuesday, April 12, 2011 1:25:48 PM

Page 1

Work Order ID: 68385

Parent Item: D4000-045

Parent Item Name: Fuel Pickup Fitting Assembly

Start Date: 4/12/2011


Required Date: 4/15/2011

Start Qty: 2.00


Required Qty: 2.00

Comments: IPP rev A 10.01.20 new issue Prelim EC verified by:DD IPP rev B
10.05.13 ecn10-562 EC verified by:DD


Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D4000-11  Cap		Manufactured	No			100	Each	6.0000	1	2		11.05.02	
--	--	--------------	----	--	--	-----	------	--------	---	---	--	----------	--

Location	Loc Qty	Loc Code
ENG	4	
55892	4	
WA013	2	
62455	2	

D4000-7  Fuel Pickup Fitting		Manufactured	No			100	Each	3.0000	1	2		11.05.02	
---	--	--------------	----	--	--	-----	------	--------	---	---	--	----------	--

Location	Loc Qty	Loc Code
WA013	3	
65722	3	

D4003-5  Fuel Pick Up Line		Manufactured	No			100	Each	3.0000	1	2		11.05.02	
---	--	--------------	----	--	--	-----	------	--------	---	---	--	----------	--

Location	Loc Qty	Loc Code
WA014	3	
62466	3	

W/O:		WORK ORDER CHANGES					
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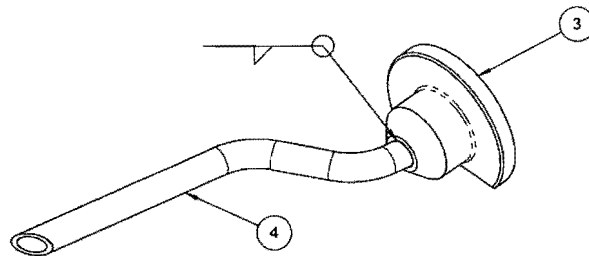
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

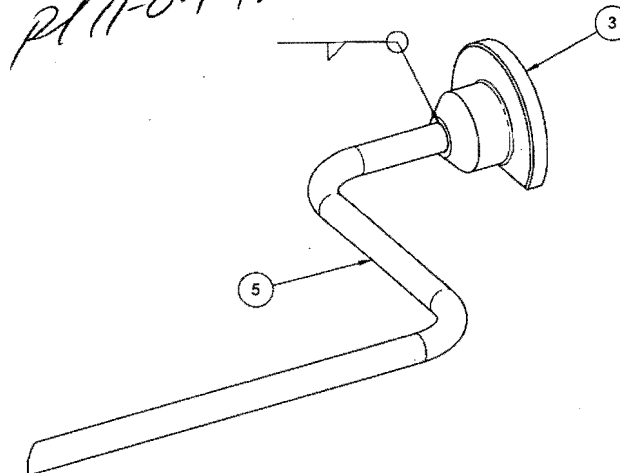
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

ITEM	QTY. -043	QTY. -045	P/N	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X		D4000-041	DRAIN FITTING ASSEMBLY, AFT	JCA-M47-1-06
2		X	D4000-043	DRAIN FITTING ASSEMBLY, FWD	JCA-M47-1-15
3	1	1	D4000-3	FUEL SUMP DRAIN FITTING	
4	1		D4003-1	INTERNAL DRAIN LINE, AFT	
5		1	D4003-3	INTERNAL DRAIN LINE, FWD	



D4000-041 DRAIN FITTING ASSEMBLY, AFT



D4000-043 DRAIN FITTING ASSEMBLY, FWD

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 48385
P11-04-11

RELEASED
2010-05-05
MP

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4000-043/-045" AND B/N USING FINE POINT PERMANENT INK MARKER
 - 7) WEIGHT: D4000-043 - 0.04 lbs
D4000-045 - 0.05 lbs

A	NEW ISSUE	BY	10.02.10
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.02.10		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D4000** REV. A
TITLE **FITTING** SCALE NTS

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

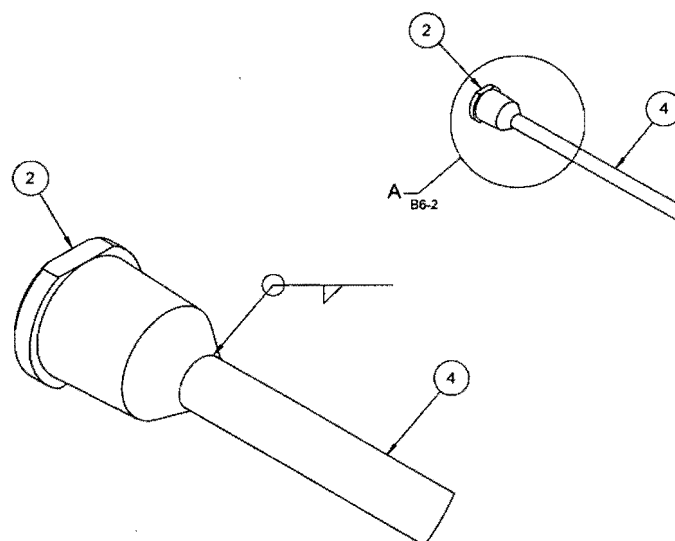
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

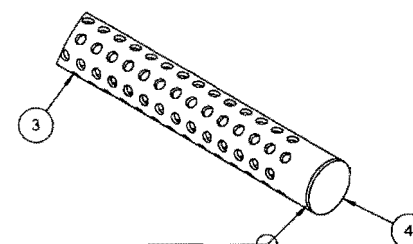
NOTE: Date & initial all entries

ITEM NO.	QTY. -047	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4000-045	FUEL PICK UP FITTING ASSEMBLY	JCA-M47-1-10
2	1	D4000-7	FUEL PICK UP FITTING	
3	1	D4000-11	CAP	
4	1	D4003-5	FUEL PICK UP LINE	



DETAIL A
SCALE 4X C6-2

D4000-045 FUEL PICKUP FITTING ASSEMBLY



DETAIL B
SCALE 4X B2-2

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4000-045" AND B/N USING FINE POINT PERMANENT INK MARKER
 - 7) WEIGHT: 0.27 lbs

DESIGN		DART AEROSPACE LTD	
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MFG. APPR.		D4000	SHEET 2 OF 8
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2010-05-05

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

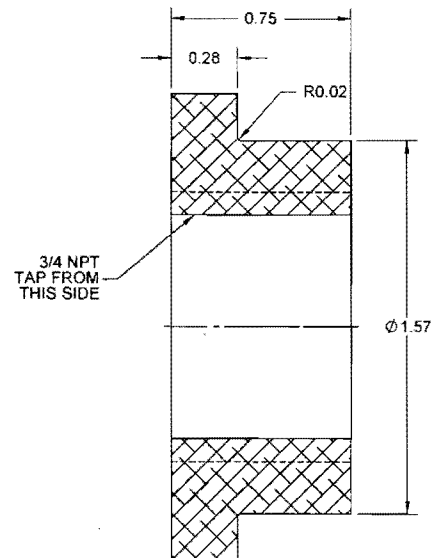
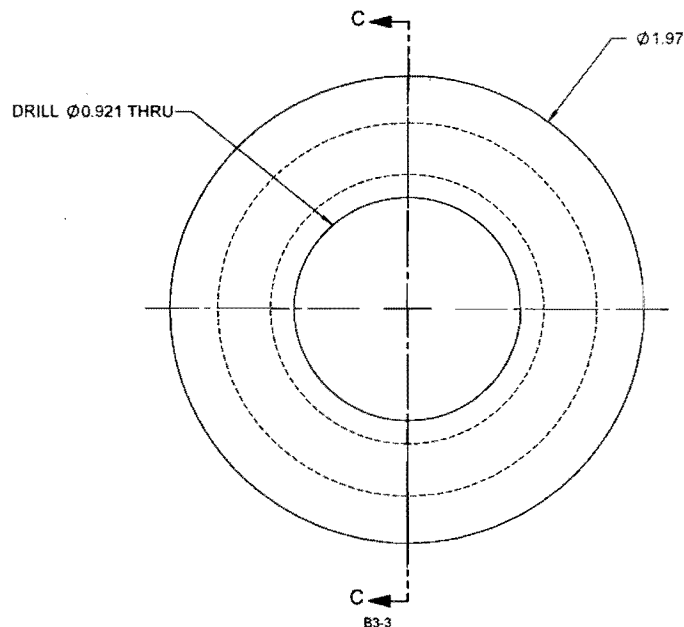
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

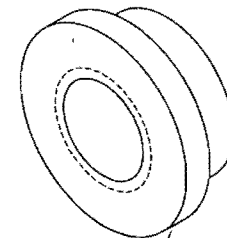
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4000-1	JCA-M47-1-04



SECTION C-C
B6-3



u/b 68385

D4000-1 FUEL SUPPLY FITTING

RELEASED
2010-05-05
mt

NOTES:

- 1) MATERIAL: 6061-T6 (OR 6061-T651/T6510/T6511/T62) ROUND BAR
PER AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR
PER AMS-QQ-A-200/8 (OR AMS 4160)
REF DART SPEC M6061T6R
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.12 lbs

DESIGN	<i>JE</i>	DART AEROSPACE LTD	
DRAWN	<i>JE</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>JE</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>JE</i>	D4000	SHEET 3 OF 8
APPROVED	<i>JE</i>	TITLE	SCALE
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

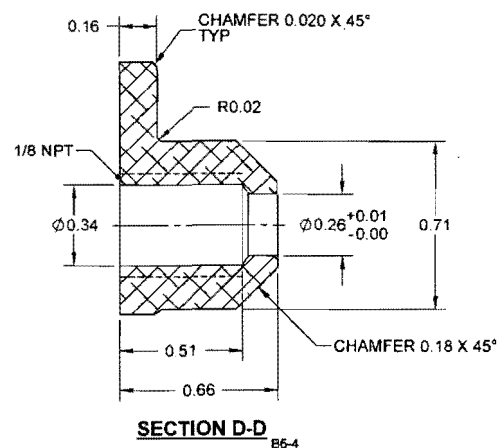
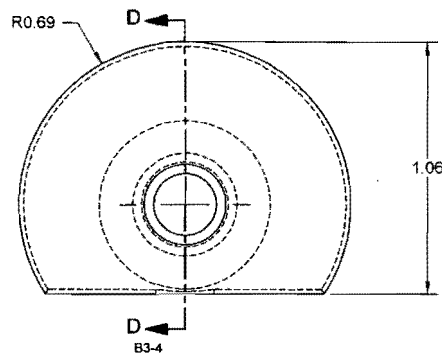
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4000-3	JCA-M47-1-05



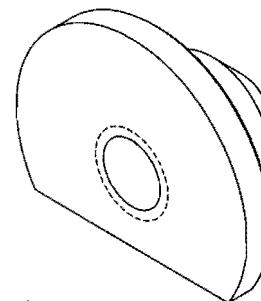
D4000-3 FUEL SUMP DRAIN FITTING

NOTES:

- 1) MATERIAL: 6061-T6 (OR 6061-T651/T6510/T6511/T62) ROUND BAR
PER AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR
PER AMS-QQ-A-200/8 (OR AMS4160)
REF DART SPEC M6061T6R
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.03 lbs

DESIGN		DART AEROSPACE LTD	
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MFG. APPR.		D4000	SHEET 4 OF 8
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2010-05-05
WHP



WHP 48385

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

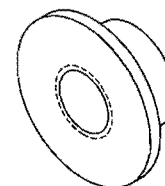
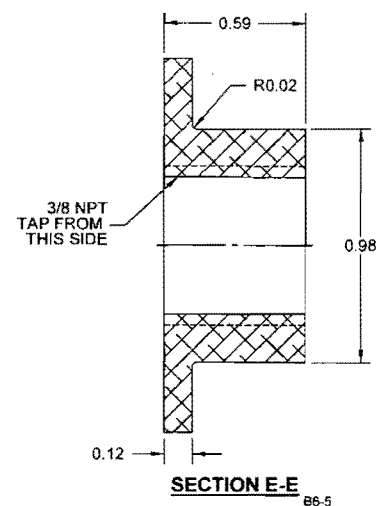
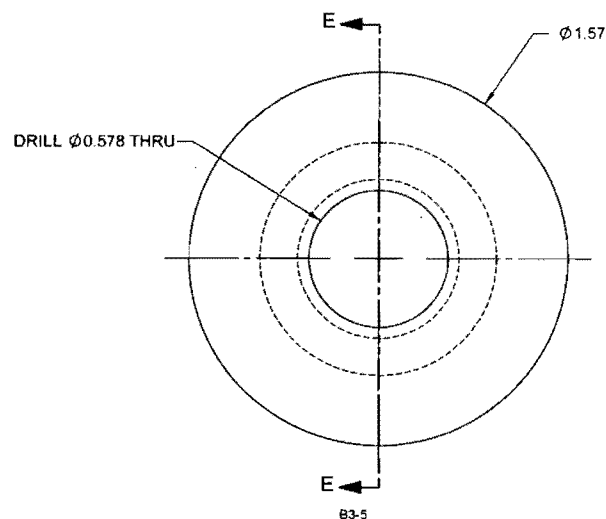
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4000-5	JCA-M47-1-09



u/648385

D4000-5 FUEL TANK VENT FITTING

RELEASED
2010-05-05
MD

NOTES:

- 1) MATERIAL: 6061-T6 (OR 6061-T651/T6510/T6511/T62) ROUND BAR
PER AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR
PER AMS-QQ-A-200/8 (OR AMS 4160)
REF DART SPEC M6061T6R
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.04 lbs

DESIGN	<i>41</i>	DART AEROSPACE LTD	
DRAWN	<i>41</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>41</i>	DRAWING NO.	REV. A
MFG APPR.	<i>41</i>	D4000	SHEET 5 OF 8
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W/O:		WORK ORDER CHANGES					
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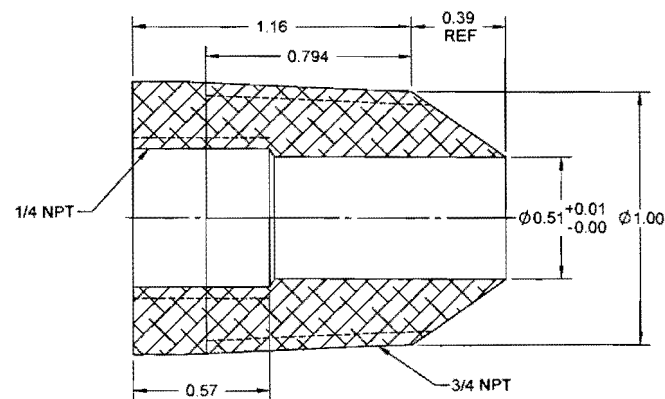
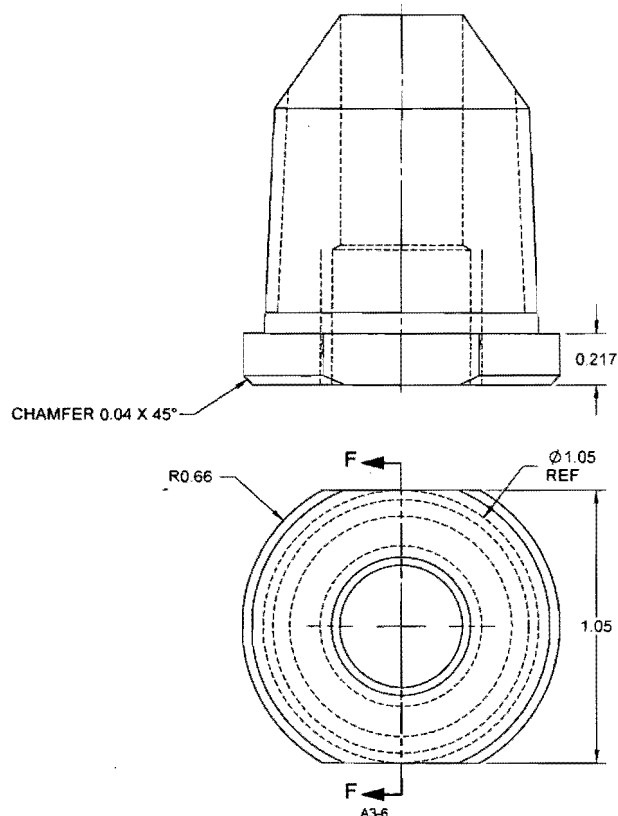
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4000-7	REF JCA-M47-1-10

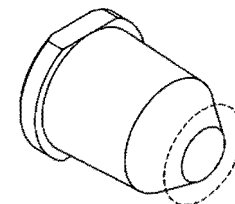


SECTION F-F
A6-6

D4000-7 FUEL PICK UP FITTING

NOTES:

- 1) MATERIAL: 6061-T6 (OR 6061-T651/T6510/T6511/T62) ROUND BAR
PER AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR
PER AMS-QQ-A-200/8 (OR AMS 4160)
REF DART SPEC M6061T6R
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.10 lbs



W/O 68385

RELEASED
2010-05-05
MD

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. D4000	REV. A
MFG. APPR.			SHEET 6 OF 8
APPROVED		TITLE FITTING	SCALE
DE APPR.			NTS
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W/O:		WORK ORDER CHANGES					
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4000-9	JCA-M47-1-11

DRILL $\phi 0.60$ THRU

$\phi 1.02$

G

G
B3-7

0.13 x 45° CHAMFER

0.39

$\phi 0.709$ $\phi 0.748$

0.051

0.20 0.073

SECTION G-G

B6-7

D4000-9 GROMMET

RELEASED
2010-05-05
MD

NOTES:

- 1) MATERIAL: DELRIN II 150E OR ACETRON GP ACETAL, $\phi 1.000$ ROUND BAR
REF DART SPEC M-DELRIN-R1.000
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.01 lbs

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4000	SHEET 7 OF 8
APPROVED		TITLE	SCALE
DE APPR.		FITTING	NTS
DATE	10.02.10	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

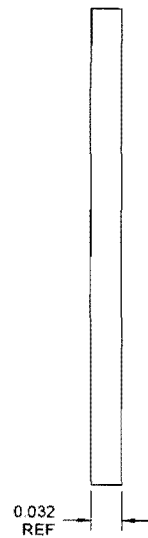
8 7 6 5 4 3 2 1

D

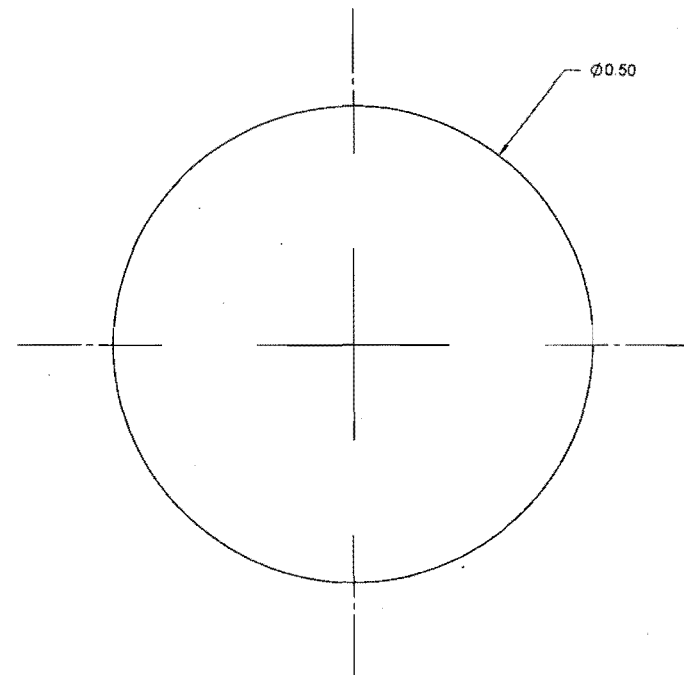
C

B

A



0.032
REF



Ø0.50

WLO 68386

D4000-11 CAP

RELEASED
2010-05-05
JMB

NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET, 0.032 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.032
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.00 lbs

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8 7 6 5 4 3 2 1

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